

PC25365A SEQ LIST.ST25.txt
SEQUENCE LISTING

<110> PFIZER INC.
Fennell, Kimberly F.
Mansour, Mahmoud N.
Qiu, Xiayang

<120> CRYSTAL STRUCTURE OF STREPTOCOCCUS UNDECAPRENYL PYROPHOSPHATE
SYNTHASE AND USES THEREOF

<130> PC25365A

<150> US 60/459,053
<151> 2003-03-31

<160> 22

<170> PatentIn version 3.2

<210> 1
<211> 252
<212> PRT
<213> Streptococcus pneumoniae

<400> 1

Met Phe Gly Phe Phe Lys Lys Asp Lys Ala Val Glu Val Glu Val Pro
1 5 10 15

Thr Gln Val Pro Ala His Ile Gly Ile Ile Met Asp Gly Asn Gly Arg
20 25 30

Trp Ala Lys Lys Arg Met Gln Pro Arg Val Phe Gly His Lys Ala Gly
35 40 45

Met Glu Ala Leu Gln Thr Val Thr Lys Ala Ala Asn Lys Leu Gly Val
50 55 60

Lys Val Ile Thr Val Tyr Ala Phe Ser Thr Glu Asn Trp Thr Arg Pro
65 70 75 80

Asp Gln Glu Val Lys Phe Ile Met Asn Leu Pro Val Glu Phe Tyr Asp
85 90 95

Asn Tyr Val Pro Glu Leu His Ala Asn Asn Val Lys Ile Gln Met Ile
100 105 110

Gly Glu Thr Asp Arg Leu Pro Lys Gln Thr Phe Glu Ala Leu Thr Lys
115 120 125

Ala Glu Glu Leu Thr Lys Asn Asn Thr Gly Leu Ile Leu Asn Phe Ala
130 135 140

Leu Asn Tyr Gly Gly Arg Ala Glu Ile Thr Gln Ala Leu Lys Leu Ile
145 150 155 160

Ser Gln Asp Val Leu Asp Ala Lys Ile Asn Pro Gly Asp Ile Thr Glu
Page 1

EXPRESS MAIL NO. EV230847081US

165

170

175

Glu Leu Ile Gly Asn Tyr Leu Phe Thr Gln His Leu Pro Lys Asp Leu
 180 185 190

Arg Asp Pro Asp Leu Ile Ile Arg Thr Ser Gly Glu Leu Arg Leu Ser
 195 200 205

Asn Phe Leu Pro Trp Gln Gly Ala Tyr Ser Glu Leu Tyr Phe Thr Asp
 210 215 220

Thr Leu Trp Pro Asp Phe Asp Glu Ala Ala Leu Gln Glu Ala Ile Leu
 225 230 235 240

Ala Tyr Asn Arg Arg His Arg Arg Phe Gly Gly Val
 245 250

<210> 2
 <211> 6
 <212> PRT
 <213> Streptococcus pneumoniae

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> xaa can be any naturally occurring amino acid

<400> 2

Glu Asn Trp Xaa Arg Pro
 1 5

<210> 3
 <211> 5
 <212> PRT
 <213> Streptococcus pneumoniae

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> xaa can be any naturally occurring amino acid

<400> 3

Asp Gly Asn Xaa Arg
 1 5

<210> 4
 <211> 6
 <212> PRT
 <213> Streptococcus pneumoniae

<400> 4

Asp Gly Asn Gly Arg Trp
 1 5

PC25365A SEQ LIST.ST25.txt

<210> 5
 <211> 6
 <212> PRT
 <213> Streptococcus pneumoniae

<400> 5

Glu Asn Trp Thr Arg Pro
 1 5

<210> 6
 <211> 6
 <212> PRT
 <213> Streptococcus pneumoniae

<400> 6

Pro Arg Val Phe Gly His
 1 5

<210> 7
 <211> 6
 <212> PRT
 <213> Streptococcus pneumoniae

<400> 7

Arg Leu Ser Asn Phe Leu
 1 5

<210> 8
 <211> 6
 <212> PRT
 <213> Streptococcus pneumoniae

<400> 8

His Ile Gly Ile Ile Met
 1 5

<210> 9
 <211> 5
 <212> PRT
 <213> Streptococcus pneumoniae

<400> 9

Gly Arg Trp Ala Lys
 1 5

<210> 10
 <211> 22
 <212> PRT
 <213> Streptococcus pneumoniae

<400> 10

Arg Val Phe Gly His Lys Ala Gly Met Glu Ala Leu Gln Thr Val Thr
 1 5 10 15

Lys Ala Ala Asn Lys Leu
20

<210> 11
<211> 6
<212> PRT
<213> Streptococcus pneumoniae

<400> 11

Val Ile Thr Val Tyr Ala
1 5

<210> 12
<211> 24
<212> PRT
<213> Streptococcus pneumoniae

<400> 12

Asp Gln Glu Val Lys Phe Ile Met Asn Leu Pro Val Glu Phe Tyr Asp
1 5 10 15

Asn Tyr Val Phe Glu Leu His Ala
20

<210> 13
<211> 5
<212> PRT
<213> Streptococcus pneumoniae

<400> 13

Lys Ile Gln Met Ile
1 5

<210> 14
<211> 14
<212> PRT
<213> Streptococcus pneumoniae

<400> 14

Lys Gln Thr Phe Glu Ala Leu Thr Lys Ala Glu Glu Leu Thr
1 5 10

<210> 15
<211> 6
<212> PRT
<213> Streptococcus pneumoniae

<400> 15

Ile Leu Asn Phe Ala Leu
1 5

<210> 16
<211> 17
<212> PRT
<213> Streptococcus pneumoniae

PC25365A SEQ LIST.ST25.txt

<400> 16

Gly Arg Ala Glu Ile Thr Gln Ala Leu Lys Leu Ile Ser Gln Asp Val
1 5 10 15

Leu ,

<210> 17

<211> 5

<212> PRT

<213> Streptococcus pneumoniae

<400> 17

Glu Glu Leu Ile Gly
1 5

<210> 18

<211> 4

<212> PRT

<213> Streptococcus pneumoniae

<400> 18

Phe Thr Gln His
1

<210> 19

<211> 4

<212> PRT

<213> Streptococcus pneumoniae

<400> 19

Leu Ile Ile Arg
1

<210> 20

<211> 4

<212> PRT

<213> Streptococcus pneumoniae

<400> 20

Glu Leu Tyr Phe
1

<210> 21

<211> 12

<212> PRT

<213> Streptococcus pneumoniae

<400> 21

Glu Ala Ala Leu Gln Glu Ala Ile Leu Ala Tyr Asn
1 5 10

<210> 22

PC25365A SEQ LIST.ST25.txt

<211> 18

<212> PRT

<213> Streptococcus pneumoniae

<400> 22

Met His His His His His His Ser Ser Gly Leu Val Pro Arg Gly Ser
1 5 10 15

Met Ala